

# PRODUCT DATASHEET C17141\_STRADA-2X2-5050-T2-M

# STRADA-2X2-5050-T2-M

IESNA Type II (medium) beam with excellent illuminance uniformity and cutoff. Variant optimized for flat 5050 size LED packages.

#### **SPECIFICATION:**

| Dimensions     | 50.0 x 50.0 mm |
|----------------|----------------|
| Height         | 7.2 mm         |
| Fastening      | screw          |
| ROHS compliant | yes 🛈          |



#### **MATERIALS:**

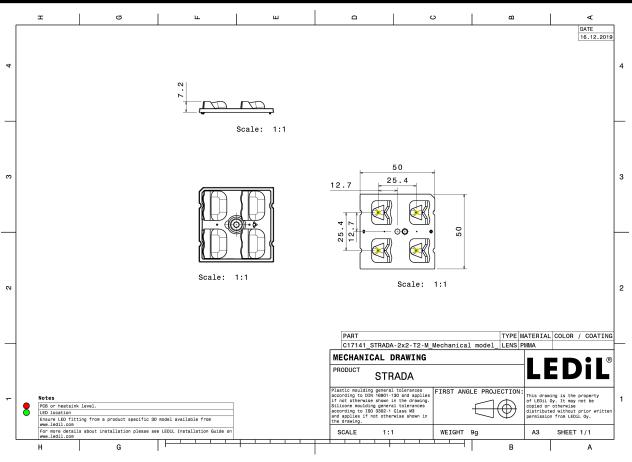
| Component            | Туре       | Material | Colour | Finish |
|----------------------|------------|----------|--------|--------|
| STRADA-2X2-5050-T2-M | Multi-lens | PMMA     | clear  |        |

#### **ORDERING INFORMATION:**

| Component                      | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|------------|-----|-----|-----------------|
| C17141_STRADA-2X2-5050-T2-M    | 800        | 160 | 160 | 7.8             |
| » Box size: 480 x 280 x 300 mm |            |     |     |                 |



# PRODUCT DATASHEET C17141\_STRADA-2X2-5050-T2-M



See also our general installation guide: www.ledil.com/installation\_guide



### **OPTICAL RESULTS (MEASURED):**

| CREE ≑  |   |  |
|---|---|--|
| LEDS  |   | 90* 90*  |
| LED   | J Series 5050C 6V E Class   |  |
| FWHM / FWTM   | Asymmetric  | 75°  |
| Efficiency  | 94 %  |  |
| Peak intensity  | 0.5 cd/lm   | 60* 60*  |
| LEDs/each optic   | 1   | 400  |
| Light colour  | White   | 45* 45   |
| Required componer   |   | 600  |
|   |   |  |
|   |   |  |
|   |   | $\angle$ / T \ $\lambda$   |
|   |   | 30° 15° 30°  |
| COMIL   | EDS   |  |
| LED   | LUXEON XR-5050 SQR (L213-xxxx016MRH001)   | 30-  |
| FWHM / FWTM   | Asymmetric  | 75* 200 75*  |
| Efficiency  | 95 %  | X X  |
| Peak intensity  | 0.5 cd/lm   | 804 300 607  |
| LEDs/each optic   | 1   | XX X   |
| Light colour  | White   | 57 500 63  |
| Required componer   |   |  |
| rioquiroù componol  |   |  |
|   |   | 700  |
|   |   |  |
|   |   | 30° 13 <sup>5</sup> 80 15° 30°   |
| MST Your soluti   | ns  |  |
| LED   | RecLED 173x50mm 2900lm 740 2x6 5050 Opt G1  | 90" 90"  |
| FWHM / FWTM   | Asymmetric  | 75%  |
| Efficiency  | 96 %  |  |
|   |   |  |
|   | () 5 cd/m   | 100" 300 T 100"  |
| Peak intensity  | 0.5 cd/lm<br>1  | 300 B07  |
| LEDs/each optic   | 1   |  |
| LEDs/each optic<br>Light colour   | 1<br>White  | 5 <sup>10</sup> 300 00 00<br>60<br>61 500 60   |
| LEDs/each optic   | 1<br>White  | 30 00 00<br>30 000 |
| LEDs/each optic<br>Light colour   | 1<br>White  | 5 <sup>2</sup> 30 50<br>40<br>6 <sup>2</sup> 50<br>60<br>70  |
| LEDs/each optic<br>Light colour   | 1<br>White  |  |
| LEDs/each optic<br>Light colour   | 1<br>White  | 20 20 20 20 20 20 20 20 20 20 20 20 20 2   |
| LEDs/each optic<br>Light colour<br>Required componer  | 1<br>White<br>ts:   | 60<br>70<br>20<br>20<br>30<br>5<br>5<br>5<br>5<br>5<br>5<br>7<br>30<br>30<br>30<br>5<br>5<br>5<br>7<br>30<br>7<br>30   |
| LEDs/each optic<br>Light colour<br>Required componen  | 1<br>White<br>ts:   | 00   |
| LEDS/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED   | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE  | 60<br>70<br>20<br>20<br>30<br>5<br>5<br>5<br>5<br>5<br>5<br>7<br>30<br>30<br>30<br>5<br>5<br>5<br>7<br>30<br>7<br>30   |
| LEDS/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM  | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric                                    | 60<br>70<br>20 <sup>4</sup> 13 <sup>4</sup> 5 <sup>4</sup> 39 <sup>4</sup>   |
| LEDs/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM<br>Efficiency  | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric<br>96 %                            | 60<br>70<br>20 <sup>4</sup> 13 <sup>4</sup> 5 <sup>4</sup> 39 <sup>4</sup>   |
| LEDs/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                                    | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric<br>96 %<br>0.4 cd/lm               | 60<br>70<br>20 <sup>4</sup> 13 <sup>4</sup> 5 <sup>4</sup> 39 <sup>4</sup>   |
| LEDs/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric<br>96 %<br>0.4 cd/lm<br>1          | 54° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50   |
| LEDs/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric<br>96 %<br>0.4 cd/lm<br>1<br>White | 60<br>70<br>20 <sup>4</sup> 13 <sup>4</sup> 5 <sup>4</sup> 39 <sup>4</sup>   |
| LEDs/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric<br>96 %<br>0.4 cd/lm<br>1<br>White | 50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°   |
| LEDs/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric<br>96 %<br>0.4 cd/lm<br>1<br>White | 50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°   |
| LEDs/each optic<br>Light colour<br>Required componen<br>PHILIP<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | 1<br>White<br>ts:<br>S<br>Fortimo FastFlex LED 2x8 DA HE<br>Asymmetric<br>96 %<br>0.4 cd/lm<br>1<br>White | 50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°<br>50°   |



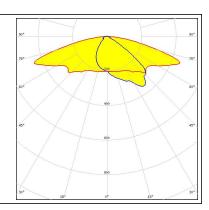
#### **OPTICAL RESULTS (MEASURED):**

# TRIDONIC

LED

FWHM / FWTMAsEfficiency96Peak intensity0.4LEDs/each optic1Light colourWRequired components:

RLE 2x8 6000Im HP HE EXC3 OTD Asymmetric 96 % 0.5 cd/lm 1 White





|   |  | 90* 90*   |
|---|--|---|
| LED   | J Series 5050 Round LES  | 700   |
| FWHM / FWTM   | Asymmetric   |   |
| Efficiency  | 92 %   | 60 <sup>4</sup> 30 60 <sup>4</sup>  |
| Peak intensity  | 0.5 cd/lm  |   |
| LEDs/each optic   | 1  |   |
| Light colour  | White  | 451   |
| Required components:  |  | 500 ×   |
|   |  | 710   |
|   |  | 200   |
|   |  | 30° 500 30° 30°   |
| CREE ≑  |  |   |
| LEDS  |  | 90* 90*   |
| LED   | J Series 5050 Round LES  | 750 750   |
| FWHM / FWTM   | Asymmetric   |   |
| Efficiency  | 84 %   | 60* 60*   |
| Peak intensity  | 0.4 cd/lm  | X - 300   |
| LEDs/each optic   |  |   |
| Light colour  | White  | 45*   |
| Required components:  |  | 500   |
| Protective plate  | alass  | 600   |
|   |  |   |
|   |  |   |
|   |  | 30* <u>15</u> <sup>5</sup> 0 <sup>6</sup> 15* 30*   |
|   |  | 20 <sup>2</sup> 12 <sup>3</sup> 0 <sup>4</sup> 12 <sup>3</sup> 20 <sup>2</sup>  |
|   | J Series 5050 Round LES  | 90 <sup>+</sup> 10 <sup>+</sup> 10 <sup>+</sup> 90 <sup>+</sup>   |
| LED   | J Series 5050 Round LES  | 23 <sup>1</sup> 0 <sup>1</sup> 23 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup> 0 <sup>1</sup>  |
| LED<br>FWHM / FWTM  | Asymmetric   | 20 <sup>1</sup> 20 <sup>1</sup> 0 <sup>2</sup> 10 <sup>2</sup> 0 <sup>2</sup>   |
| LED<br>FWHM / FWTM<br>Efficiency  | Asymmetric<br>97 %   | 20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-<br>20-  |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | Asymmetric<br>97 %<br>0.5 cd/lm  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>97 %<br>0.5 cd/lm  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1   | 33. 30. 30.   93. 60 03.   93. 60 03.   93. 60 03.   93. 60 03.   93. 60 03.   93. 60 03.   93. 60 03.   93. 60 03.   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White  | 33. 30. 30.   93. 60 93.   93. 60 60   93. 60 63.   93. 60 63.   93. 60 63.   94. 60 63.   95. 60 63.   95. 60 63.   95. 60 63.   95. 60 65.   96. 60 65.   97. 96. 95. |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE<br>LED<br>FWHM / FWTM<br>Efficiency   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class<br>Asymmetric                           | 33. 30. 30.   93. 60 93.   93. 60 60   93. 60 63.   93. 60 63.   93. 60 63.   94. 60 63.   95. 60 63.   95. 60 63.   95. 60 63.   95. 60 65.   96. 60 65.   97. 96. 95. |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                                   | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class<br>Asymmetric<br>92 %                   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class<br>Asymmetric<br>92 %<br>0.4 cd/lm      |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class<br>Asymmetric<br>92 %<br>0.4 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class<br>Asymmetric<br>92 %<br>0.4 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class<br>Asymmetric<br>92 %<br>0.4 cd/lm<br>1 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>CREE<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>97 %<br>0.5 cd/lm<br>1<br>White<br>J Series 5050B 6V K Class<br>Asymmetric<br>92 %<br>0.4 cd/lm<br>1 |   |



|   |                                      | 90* 90*  |
|---|--------------------------------------|--|
| LED   | J Series 5050B 6V K Class            |  |
| FWHM / FWTM   | Asymmetric                           | 75°  |
| Efficiency  | 79 %                                 | A dear the   |
| Peak intensity  | 0.3 cd/lm                            | 50° / / / / / / / / / / / / / / / / / / /  |
| LEDs/each optic   | 1                                    | 30   |
| Light colour  | White                                |  |
| Required components:  |                                      | 460  |
| · · • 4••• • • • • • • • • • • • • •  |                                      |  |
| Protective plate  | , glass                              |  |
|   |                                      |  |
|   |                                      | 30° 15° 30°  |
|   |                                      | 90* 90   |
| LED   | XP-G2                                |  |
| FWHM / FWTM   | Asymmetric                           | 75°  |
| Efficiency  | 91 %                                 |  |
| Peak intensity  | 0.5 cd/lm                            | 60° 60'  |
| LEDs/each optic   | 1                                    | X/TXX  |
| Light colour  | White                                | et   |
| Required components:  |                                      |  |
|   |                                      |  |
|   |                                      | 00   |
|   |                                      |  |
|   |                                      | 30 <sup>-</sup> 15 <sup>5</sup> 1000 10 <sup>+</sup> 30 <sup>-</sup>   |
|   |                                      |  |
| LED   | XP-G2 HE                             |  |
| FWHM / FWTM   | Asymmetric                           | 720 100 75   |
| Efficiency  | 90 %                                 |  |
| Peak intensity  | 0.5 cd/lm                            | 60 <sup>4</sup> 300 60 <sup>4</sup>  |
| LEDs/each optic   | 1                                    | X X He X   |
| Light colour  | White                                | 45° X0 45°   |
| Required components:  | Willo                                |  |
| required components.  |                                      |  |
|   |                                      | 700  |
|   |                                      |  |
|   |                                      | 200  |
|   |                                      | 500<br>305 25 <sup>5</sup> 200 13 <sup>5</sup> 30 <sup>6</sup>   |
|   |                                      | 200<br>200<br>12 <sup>3</sup> 00<br>13 <sup>3</sup> 13 <sup>3</sup> 00   |
| LEDS  | YP.G3                                |  |
| LED   | XP-G3                                | 50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50   |
| LEDs<br>LED<br>FWHM / FWTM  | Asymmetric                           | pr p   |
| LEDS<br>LED<br>FWHM / FWTM<br>Efficiency  | Asymmetric<br>87 %                   |  |
| LEDs<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity                                    | Asymmetric<br>87 %<br>0.5 cd/lm      |  |
| LEDs<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | Asymmetric<br>87 %<br>0.5 cd/lm<br>1 | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   |
| LEDs<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>87 %<br>0.5 cd/lm      | 20   |
| LEDs<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                 | Asymmetric<br>87 %<br>0.5 cd/lm<br>1 |  |
| LEDs<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>87 %<br>0.5 cd/lm<br>1 |  |
| LEDs<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | Asymmetric<br>87 %<br>0.5 cd/lm<br>1 | 20 7 13 2 2 1<br>20 7 13 1<br>20 7 1 |



| r   |  |   |
|---|--|---|
| CREE ≑  |  |   |
| LEDs  | XP-G3  | 90* 90*   |
| FWHM / FWTM   | Asymmetric   | 750 750   |
| Efficiency  | 82 %   |   |
| Peak intensity  | 0.4 cd/lm  | 60* 60*   |
| LEDs/each optic   | 1  | X / 30 / X /  |
| Light colour  | White  |   |
| Required components:  | white  |   |
|   |  | 200   |
| Protective plate  | e, glass   | 60  |
|   |  |   |
|   |  | 30* 700 30*<br>13 <sup>5</sup> 0 <sup>6</sup> 15*                               |
|   | DS   | 90* 90*   |
| LED   | LUXEON 5050 HE   |   |
| FWHM / FWTM   | Asymmetric   | 73°   |
| Efficiency  | 78 %   |   |
| Peak intensity  | 0.3 cd/lm  | .60 <sup>4</sup> 60 <sup>4</sup> .  |
| LEDs/each optic   | 1  | 30  |
| Light colour  | White  | 45* 440 43*   |
| Required components:  |  |   |
|   |  | 500   |
| Protective plate  | e, glass   | 660   |
|   |  |   |
|   |  | 30* 30*   |
|   |  | 30 <sup>+</sup> 13 <sup>5</sup> 30 <sup>0</sup> 13 <sup>5</sup> 30 <sup>3</sup> |
|   | S  | 80,<br>15, 96 15, 95,<br>26, 96 15, 95,   |
|   | LUXEON 5050 Round LES  |   |
|   |  | 20° 20° 20°   |
| LED   | LUXEON 5050 Round LES  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | LUXEON 5050 Round LES<br>Asymmetric  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>e, glass   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>a, glass   |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>, glass<br>LUXEON 5050 Square LES<br>Asymmetric  |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br><b>Contemponents</b><br><b>Contemponents</b>   | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>a, glass<br>LUXEON 5050 Square LES<br>Asymmetric<br>78 %                                 |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>When components:<br>Protective plate<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity  | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>e, glass<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>78 %<br>0.3 cd/lm               |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>Who components:<br>Protective plate<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                        | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>e, glass<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>78 %<br>0.3 cd/lm<br>1          |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>White components:<br>Protective plate<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour      | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>e, glass<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>78 %<br>0.3 cd/lm               |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>Who Protective plate<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                                       | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>e, glass<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>78 %<br>0.3 cd/lm<br>1          |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>White components:<br>Protective plate<br>ED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour      | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>e, glass<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>78 %<br>0.3 cd/lm<br>1<br>White |   |
| LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>Protective plate<br>While Components:<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | LUXEON 5050 Round LES<br>Asymmetric<br>78 %<br>0.4 cd/lm<br>1<br>White<br>e, glass<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>78 %<br>0.3 cd/lm<br>1<br>White |   |



| UMILEI   |   | 90*   |
|--|---|---|
| LED  | LUXEON 5050 Square LES  | 75  |
| FWHM / FWTM  | Asymmetric  |   |
| Efficiency   | 58 %  | 505   |
| Peak intensity   | 0.3 cd/lm   |   |
| LEDs/each optic  | 1   |   |
| Light colour   | White   | 45*   |
| Required components:   |   | 30  |
| C17677_STRADA-2  | X2-SHD-BLK  |   |
| Protective plat  | e, glass  | 30 <sup>-+</sup> 15 <sup>0</sup> 0 <sup>2</sup> 13 <sup>4</sup> |
|  | DS  | 80°   |
| LED  | LUXEON 5050 Square LES  |   |
| FWHM / FWTM  | Asymmetric  | <b>1</b> 20   |
| Efficiency   | 65 %  | - 100   |
| Peak intensity   | 0.3 cd/lm   | 604   |
| LEDs/each optic  | 1   |   |
| Light colour   | White   | 45*   |
| Required components:   |   | 200   |
| C17580_STRADA-2  | X2-SHD-WHT  | $\times$ / $\top$ / $\lambda$                                   |
| Protective plat  | e, glass  | 400   |
|  |   | 22 <sup>2</sup> 0 <sup>4</sup> 13 <sup>4</sup>                  |
|  |   | 90*   |
|  | LUXEON 5050 Square LES  | 750   |
| FWHM / FWTM  | Asymmetric  |   |
|  |   |   |
| Efficiency   | 74 %  | 5 <sup>11</sup>   |
| Peak intensity   | 74 %<br>0.4 cd/lm   | E <sup>1</sup>  |
| Peak intensity<br>LEDs/each optic  | 74 %<br>0.4 cd/lm<br>1  |   |
| Peak intensity<br>LEDs/each optic<br>Light colour  | 74 %<br>0.4 cd/lm   | 6 <sup>11</sup>   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:                    | 74 %<br>0.4 cd/lm<br>1<br>White   | 60 <sup>1</sup><br>   |
| Peak intensity<br>LEDs/each optic<br>Light colour  | 74 %<br>0.4 cd/lm<br>1<br>White   | 60°<br>   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:                    | 74 %<br>0.4 cd/lm<br>1<br>White   | 60<br>  |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:                    | 74 %<br>0.4 cd/lm<br>1<br>White   | 61 <sup>-</sup><br>   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT   |   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT   |   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br>DS<br>LUXEON 5050 Square LES   |   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br>S<br>LUXEON 5050 Square LES<br>Asymmetric  |   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br>DS<br>LUXEON 5050 Square LES   |   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br>DS<br>LUXEON 5050 Square LES<br>Asymmetric<br>67 %                                   |   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>67 %<br>0.3 cd/lm<br>1                  |   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br>S<br>LUXEON 5050 Square LES<br>Asymmetric<br>67 %<br>0.3 cd/lm                       | 60'   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br><b>DS</b><br>LUXEON 5050 Square LES<br>Asymmetric<br>67 %<br>0.3 cd/lm<br>1<br>White | 60'   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br><b>DS</b><br>LUXEON 5050 Square LES<br>Asymmetric<br>67 %<br>0.3 cd/lm<br>1<br>White | 60*   |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components:<br>C17580_STRADA-2 | 74 %<br>0.4 cd/lm<br>1<br>White<br>X2-SHD-WHT<br><b>DS</b><br>LUXEON 5050 Square LES<br>Asymmetric<br>67 %<br>0.3 cd/lm<br>1<br>White | 60'   |



| MST Your solutions           |  | 50* 55*                                 |
|------------------------------|--|---|
| LED                          | RecLED 173x50mm 2900lm 740 2x6 5050 Opt G1 | 30°                                     |
| FWHM / FWTM                  | Asymmetric                                 | 73%                                     |
| Efficiency                   | 82 %                                       |   |
| -                            | 0.3 cd/lm                                  | 40°                                     |
| Peak intensity               |  |   |
| LEDs/each optic              | 1  | 300                                     |
| Light colour                 | White                                      | 45+ 400 45+                             |
| Required components:         |  |   |
| Protective plate             | , glass                                    | 200                                     |
|                              |  |   |
|                              |  | 33° 12 <sup>5</sup> 0° 13° 50°          |
| <b>ΜΝΙCΗΙΛ</b>               |  | 80°                                     |
| LED                          | NFMW48xA                                   | Ĩ,                                      |
| FWHM / FWTM                  | Asymmetric                                 | 75° (100 75°                            |
| Efficiency                   | 79 %                                       |   |
| Peak intensity               | 0.4 cd/lm                                  | 50° 60*                                 |
| LEDs/each optic              | 1  | × / **                                  |
| Light colour                 | White                                      | 45* 440 65*                             |
| Required components:         |  | X/TX                                    |
|                              |  | 50                                      |
| Protective plate             | , glass                                    | 80                                      |
|                              |  |   |
|                              |  | 30* 700 30* 30*                         |
| OSRAM<br>Opto Semiconductors |  | 90° 93°                                 |
| LED                          | Duris S8                                   |   |
| FWHM / FWTM                  | Asymmetric                                 | 750 770                                 |
| Efficiency                   | 59 %                                       |   |
| Peak intensity               | 0.3 cd/lm                                  | SU <sup>4</sup>                         |
| LEDs/each optic              | 1  |   |
| Light colour                 | White                                      | 45* 45*                                 |
| Required components:         |  |   |
| C17677_STRADA-2X             | 2-SHD-BLK                                  |   |
|                              |  |   |
| Protective plate             | , glass                                    | 410                                     |
| OSRAM                        |  | 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 - |
| Opto Semiconductors          |  | 90* 90*                                 |
| LED                          | Duris S8                                   | 75                                      |
| FWHM / FWTM                  | Asymmetric                                 |   |
| Efficiency                   | 67 %                                       | 507                                     |
| Peak intensity               | 0.3 cd/lm                                  |   |
| LEDs/each optic              | 1  | X / X                                   |
| Light colour                 | White                                      | e. e.                                   |
| Required components:         |  |   |
| C17677_STRADA-2X             | 2-SHD-BLK                                  |   |
|                              |  | × 1 - **                                |
|                              |  |   |
|                              |  | 125                                     |



| OCDAM   |  |   |
|---|--|---|
| OSRAM<br>Opto Semiconductors  |  |   |
| LED   | Duris S8   |   |
| FWHM / FWTM   | Asymmetric   | 750 100 75  |
| Efficiency  | 79 %   |   |
| Peak intensity  | 0.4 cd/lm  | 60* 60'   |
|   |  | XXXX  |
| LEDs/each optic   | 1  |   |
| Light colour  | White  | 45' 45'   |
| Required components:  |  |   |
| Protective plate  | , glass  |   |
|   |  |   |
|   |  | 30° 700 90° 10° 90°   |
| OSRAM<br>Opto Semiconductors  |  | 90* 90  |
| LED   | OSCONIQ S 5050   |   |
| FWHM / FWTM   | Asymmetric   | 75°   |
| Efficiency  | 77 %   |   |
| Peak intensity  | 0.3 cd/lm  | 60* 200 60*   |
| LEDs/each optic   | 1  | × × ×   |
| Light colour  | White  | 45'   |
| Required components:  |  |   |
|   |  |   |
| Protective plate  | , glass  | $\times$ / $\times$ / $\times$  |
|   |  | 50° 000 30°   |
| 0000444   |  |   |
| OSRAM<br>Opto Semiconductors  |  | 90. 90.   |
| LED   | OSCONIQ S 5050   | 100   |
| FWHM / FWTM   | Asymmetric   | 730 770   |
| Efficiency  | 93 %   |   |
| Peak intensity  | 0.5 cd/lm  | 60° 601   |
|   |  |   |
| LEDS/each optic   | 1  |   |
| LEDs/each optic<br>Light colour   | 1<br>White   | 40  |
| Light colour  |  | 40<br>40<br>50<br>60<br>60  |
|   |  | 80<br>80<br>90<br>90<br>90<br>90  |
| Light colour  |  | 40<br>40<br>90<br>60<br>70<br>70  |
| Light colour  |  | 80<br>87<br>90<br>70<br>70<br>80  |
| Light colour<br>Required components:  |  |   |
| Light colour<br>Required components:<br>OSRAM   |  | 600<br>700<br>700   |
| Light colour<br>Required components:  | White  | 600<br>700<br>700   |
| Light colour<br>Required components:<br>Osto Semiconductors<br>LED  | White<br>OSCONIQ S 5050  | 600<br>700<br>700   |
| Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM  | White<br>OSCONIQ S 5050<br>Asymmetric                                    | 500<br>500<br>500<br>500<br>500<br>500<br>500<br>500                                  |
| Light colour<br>Required components:<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency   | White<br>OSCONIQ S 5050<br>Asymmetric<br>80 %                            | 500<br>500<br>500<br>500<br>500<br>500<br>500<br>500                                  |
| Light colour<br>Required components:<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity   | White<br>OSCONIQ S 5050<br>Asymmetric<br>80 %<br>0.3 cd/lm               | 500<br>500<br>500<br>500<br>500<br>500<br>500<br>500                                  |
| Light colour<br>Required components:<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                          | White<br>OSCONIQ \$ 5050<br>Asymmetric<br>80 %<br>0.3 cd/lm<br>1         | 500<br>700<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>2               |
| Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | White<br>OSCONIQ S 5050<br>Asymmetric<br>80 %<br>0.3 cd/lm               | 500<br>500<br>500<br>500<br>500<br>500<br>500<br>500                                  |
| Light colour<br>Required components:<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic                          | White<br>OSCONIQ \$ 5050<br>Asymmetric<br>80 %<br>0.3 cd/lm<br>1         | 90<br>90<br>90<br>90<br>90<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 |
| Light colour<br>Required components:<br>OSRAM<br>Opto Semiconductors<br>LED<br>FWHM / FWTM<br>Efficiency<br>Peak intensity<br>LEDs/each optic<br>Light colour | White<br>OSCONIQ S 5050<br>Asymmetric<br>80 %<br>0.3 cd/lm<br>1<br>White | 90<br>90<br>90<br>90<br>90<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 |
| Light colour<br>Required components:  | White<br>OSCONIQ S 5050<br>Asymmetric<br>80 %<br>0.3 cd/lm<br>1<br>White | 90<br>90<br>90<br>90<br>90<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 |



| OSRAM<br>Opto Semiconductors  |                                | 90* 90*   |
|---|--------------------------------|---|
| LED   | OSLON Square CSSRM2/CSSRM3     |   |
| FWHM / FWTM   | Asymmetric                     | 75°   |
| Efficiency  | 76 %                           |   |
| Peak intensity  | 0.3 cd/lm                      | 60°   |
| LEDs/each optic   | 1                              |   |
| Light colour  | White                          | 30  |
| Required components:  |                                | 400   |
|   |                                | $\times$ $\times$   |
| Protective plate  | e, glass                       | 500   |
|   |                                | 30* <u>15</u> <sup>2</sup> <u>600</u> <u>15</u> <sup>2</sup> 30 <sup>4</sup>    |
| PHILIPS   |                                |   |
| LED   | Fortimo FastFlex LED 2x8 DA HE | 90° 90°   |
| FWHM / FWTM   | Asymmetric                     | 75*   |
| Efficiency  | 82 %                           |   |
| Peak intensity  | 0.4 cd/lm                      | 61 <sup>4</sup> 61 <sup>4</sup>   |
| LEDs/each optic   | 1                              |   |
| Light colour  | White                          |   |
| Required components:  | White                          | 40  |
| riequired compension  |                                |   |
| Protective plate  | e, glass                       | 200   |
|   |                                | 640   |
|   |                                | (30 <sup>4</sup> 13 <sup>5</sup> 0 <sup>6</sup> 13 <sup>4</sup> 30 <sup>4</sup> |
| SAMSUN  | IG                             | 90 <sup>+</sup> 90 <sup>+</sup>   |
| LED   | LH351C                         |   |
| FWHM / FWTM   | Asymmetric                     | 75° 75°   |
| Efficiency  | 77 %                           |   |
| Peak intensity  | 0.3 cd/lm                      | .60* 60*  |
| LEDs/each optic   | 1                              |   |
| Light colour  | White                          | 45°   |
| Required components:  |                                |   |
|   |                                | 400   |
| Protective plate  | e, glass                       | 200   |
|   |                                | 30. 30.   |
| SAMSUN  | IG                             |   |
| LED   | LH502C                         | 90" 90"   |
| FWHM / FWTM   | Asymmetric                     | 75°   |
| Efficiency  | 79 %                           |   |
|   |                                | 24  |
|   |                                | 60° 60°   |
| Peak intensity  | 0.3 cd/lm                      | 50° 60.   |
| Peak intensity<br>LEDs/each optic   | 0.3 cd/lm<br>1                 | 50° (87.<br>200   |
| Peak intensity<br>LEDs/each optic<br>Light colour                         | 0.3 cd/lm                      | 50° (07.<br>300 (07.<br>60° (07.  |
| Peak intensity<br>LEDs/each optic   | 0.3 cd/lm<br>1                 | 50° (27)<br>50° (27)<br>50° (27)<br>50° (27)                                    |
| Peak intensity<br>LEDs/each optic<br>Light colour                         | 0.3 cd/lm<br>1<br>White        | 6°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60°<br>60°                      |
| Peak intensity<br>LEDs/each optic<br>Light colour<br>Required components: | 0.3 cd/lm<br>1<br>White        | 6° (07  |



| SAMSUN               | IG               |                                     |
|----------------------|------------------|-------------------------------------|
| LED                  | LH502D           | 90° 90°                             |
| FWHM / FWTM          | Asymmetric       | 730 100 750                         |
| Efficiency           | 93 %             | XXXXX                               |
| Peak intensity       | 0.5 cd/lm        | 604 300 601                         |
| LEDs/each optic      | 1                | 400                                 |
| Light colour         | White            | 45* 500 45*                         |
| Required components: |                  |                                     |
| - 1 1                |                  |                                     |
|                      |                  |                                     |
|                      |                  | 800                                 |
|                      |                  | 130° 155 200 15° 30°                |
| SAMSUN               | IG               | 90* 90*                             |
| LED                  | LH502D           |                                     |
| FWHM / FWTM          | Asymmetric       | 75%                                 |
| Efficiency           | 80 %             | 200                                 |
| Peak intensity       | 0.3 cd/lm        |                                     |
| LEDs/each optic      | 1                | 20                                  |
| Light colour         | White            | 45* 400 45*                         |
| Required components: |                  | $\times$                            |
| Protective plate     | dass             | 50                                  |
|                      | , 9000           | 000                                 |
|                      |                  | 30° 15° 0° 15° 30°                  |
|                      |                  | 90* 90*                             |
| LED                  | MJT 5050         |                                     |
| FWHM / FWTM          | Asymmetric       | 73°                                 |
| Efficiency           | 89 %             |                                     |
| Peak intensity       | 0.4 cd/lm        | 60 <sup>4</sup> 300 60 <sup>4</sup> |
| LEDs/each optic      | 1                |                                     |
| Light colour         | White            | 45* 500 45*                         |
| Required components: |                  | 0,0                                 |
|                      |                  |                                     |
|                      |                  |                                     |
|                      |                  | 30* 800<br>30* 30*                  |
| SEOUL                |                  |                                     |
| SEOUL SEMICONDUCTOR  |                  | 90* 90*                             |
| LED                  | SEOUL DC 5050 6V | 300                                 |
| FWHM / FWTM          | Asymmetric       |                                     |
| Efficiency           | 92 %             | 50* 500                             |
| Peak intensity       | 0.4 cd/lm        |                                     |
| LEDs/each optic      | 1                | 400                                 |
| Light colour         | White            | 45° 500 45°                         |
| Required components: |                  | 60                                  |
|                      |                  | 710                                 |
|                      |                  |                                     |
|                      |                  |                                     |



| SEOUL SEMICONDUCTOR     |                  | <u>8</u> *                 |
|-------------------------|------------------|----------------------------|
| LED                     | SEOUL DC 5050 6V | 75%                        |
| FWHM / FWTM             | Asymmetric       |                            |
| Efficiency              | 82 %             |                            |
| Peak intensity          | 0.3 cd/lm        | -60°                       |
| LEDs/each optic         | 1                | 30                         |
| Light colour            | White            | 451 400                    |
| Required components:    |                  |                            |
| Protective plate, glass |                  | 50                         |
|                         |                  | 20° 15 <sup>5</sup> 0° 15° |



#### **GENERAL INFORMATION:**

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### MATERIALS:

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